WINCOR NIXDORF

BEETLE /iSCAN Tower Line 50

Self Checkout System

Site Preparation, Important Notes and Commissioning

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Introduction

The BEETLE /iSCAN Tower Line 50 is a terminal that offers the customer to handle the purchase by scanning, bagging and paying the items on his own. In case of problems an attendant is available for quick support.

BEETLE /iSCAN Tower Line 50 offers the following main functions:

- Record function - records items the customer wants to buy
- Control function - secures the recording of all items
- Payment function - payment may be effected by banking cards, customer cards and accounts.

About this manual

This manual refers to technically trained personnel only.

It provides all necessary site preparation information for installing BEETLE /iSCAN Tower Line 50 at the site.

Notes are marked by this symbol.

Caution! Identifies action requiring caution.

The responsibility for all technical and special prerequisites for installation of BEETLE /iSCAN Tower Line 50 is borne by the customer. A detailed list of customer responsibilities is given in this manual.

Installation as well as connection of BEETLE /iSCAN Tower Line 50 may only be executed by technically trained personnel.

The safety instructions given in this document should be strictly followed when handling BEETLE /iSCAN Tower Line 50. Further safety, installation, and maintenance instructions can be found in the manuals supplied with the components.

In case of doubts or questions please contact Wincor Nixdorf International (WN).

Warranty

Wincor Nixdorf guarantees generally a warranty engagement for 12 months beginning with the date of delivery. This warranty engagement covers all damages which occur despite a normal use of the product.

Damages because of

- improper or insufficient maintenance,
- improper use of the product or unauthorized modifications of the product,
- inadequate location or surroundings

will not be covered by the warranty.

For further information on the stipulation consult your contract.

All parts of the product which are subject to wear and tear are not included in the warranty engagement. For detailed warranty arrangements please consult your contract documents.

ESD (Electrostatic Sensitive Devices)

Assemblies containing electrostatic sensitive devices (ESD) may be labeled with this sticker.

When installing an assembly or drive, please follow the guidelines below, which apply to all electro-static sensitive devices (ESD):

- Make sure you are not carrying a static charge before working with components marked as ESD by first touching a grounded object (such as a radiator from a hot water heating system).
- All tools and devices you use must be free from static charges.
- Always unplug the power cord before installing or removing any assemblies.
- Always handle assemblies by their edges.
- Never touch the terminal pins of the circuits on an assembly.

Important Notes

Appliances supplied by Wincor Nixdorf International GmbH comply with the respective safety regulations for data-processing installations and information technology installations, including electrical office equipment for use within an office environment.

Whenever work of any kind is done on the device, as well as when data cables are plugged and unplugged, the device must be completely disconnected from the line voltage.

- Appliances may only be repaired by authorized technicians.
- Unauthorized opening of the housing or inexpert repairs can result not only in considerable personal danger, but will also invalidate your warranty and liability protection.
- Always consult the enclosed documentation before doing any work with this appliance.
- If this device is brought from a cold environment into a heated place of business, condensation may occur. Before operation, the device must be completely dry. Therefore, an acclimatization period of at least two hours must be adhered to.
- Always lay the supply leads and cables in such a way that they cannot be stepped on or tripped over.
- Only touch green marked handles and knobs for moving parts.
- Exchange damaged cables immediately.
- In order to completely disconnect the device from the power source, turn the device off and use the separator in the fuse box\building installation.
- Make sure that no objects (such as paper clips) can reach the interior of the device, since electrical shocks or short-circuits could result.
- To avoid overheating of the power supply unit. Ensure that the BEETLE /iSCAN Tower Line 50 receives adequate ventilation.
- During an electrical storm, data cables should not be plugged in or unplugged.
- Keep the device away from vibrations, airstreams/ventilations, dust, humidity and heat.
- Ensure that used parts are disposed of in *an environmentally friendly manner*.
- In case of an accident (such as a damaged housing, entry of liquids or foreign objects), switch the device off and use the separator to completely remove the device from power.
- BEETLE /iSCAN Tower Line 50 is the result of state-of-the-art technology. Therefore, please also ensure that the BEETLE /iSCAN Tower Line 50 is operated under modern building and technical conditions in order to ensure flawless and efficient operation. The appliance and other information technology hardware should only be connected to electrical supply networks with a separate protective earth wire (PE). This type of

electrical supply network is referred to as a TN-S network. Do not use PEN conductors.
Also follow the recommendations set forth in DIN VDE 0100 Part 540, Appendix C2 as well as EN50174-2, §5.4.3, National Electrical Code ANSI/NFPA 70-2005 and Canadian Electrical Code, Part I, CSA C22.1-02. This will help prevent malfunctions.

- When working on the cutter of the printer, the device must be turned off.
- Always keep the ventilation slots free of obstruction to ensure adequate air circulation and avoid overheating.
- Transport the appliance only in its original packaging (to protect it against knocks and bumps).
- If a lithium battery is supplied with the appliance, ensure that the battery is replaced with an equivalent type. Otherwise there is danger of explosion! Lithium batteries may only be replaced with identical types or other types recommended by the manufacturer.
- Batteries must be disposed of according to local regulations on the disposal of special waste.

Connecting Peripherals

Use only shielded cables when connecting devices to the system to ensure compliance with international Rules and Regulations for radiated emission as well as to achieve a high immunity against external disturbances.

Note on Laser

The barcode readers contain a light-emitting diode (LED), classified according to LASER CLASS 1:

Laser
Laser Class 1: IEC 60825-1:2007+A1+A2,
EN 60825-1:2007+A1+A2
CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
LASER KLASSE 1 PRODUKT
LASER CLASE 1 PRODUCTO
CAUTION: CLASS 2 LASER LIGHT WHEN OPEN. DO NOT STARE INTO THE BEAM. ATTENTION: RAYONNEMENT LASER CLASSE 2 LORS DE L'OUVERTURE. NE PAS REGARDER FIXEMENT DANS LE FAISCEAU. VORSICHT–KLASSE 2 LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NIICHT IN DEN STRAHL BLICKEN. CUIDADO: LUZ LASER CLASE 2 AL ABRIR, NO FIJAR LA VISTA EN EL RAYO. Warranty VOID if case opened. Contains no user serviceable components.

Tools you need

Keep the following tools at hand for working on the BEETLE /iSCAN Tower Line 50:

Socket wrench	5 mm
Open-end wrench	5.5 mm
Allen screw	H3, H4, H5
Jay wrench	5,5, 7, 8 mm and 17 mm (adjustment)
Flathead screwdrivers (two sizes)	e.g. 1.0 x 6 0.6 x 4.5
Phillips screwdrivers	PHO, 1 and 2
Flathead screw driver	0,5 x 35 mm
Torx screwdrivers (hexagon round screwdrivers)	6, 7, 8, 10, 15, 20 and 25 mm
Antistatic kit	
Air lever	

Customer Requirements

Before BEETLE /iSCAN Tower Line 50 installations can be started, the customer is held responsible to provide the following:

If more than ten Self Checkout Systems (Lanes) are to operate in one configuration they have to be connected to a network via an ISCAN server with a performance matching the requirements.

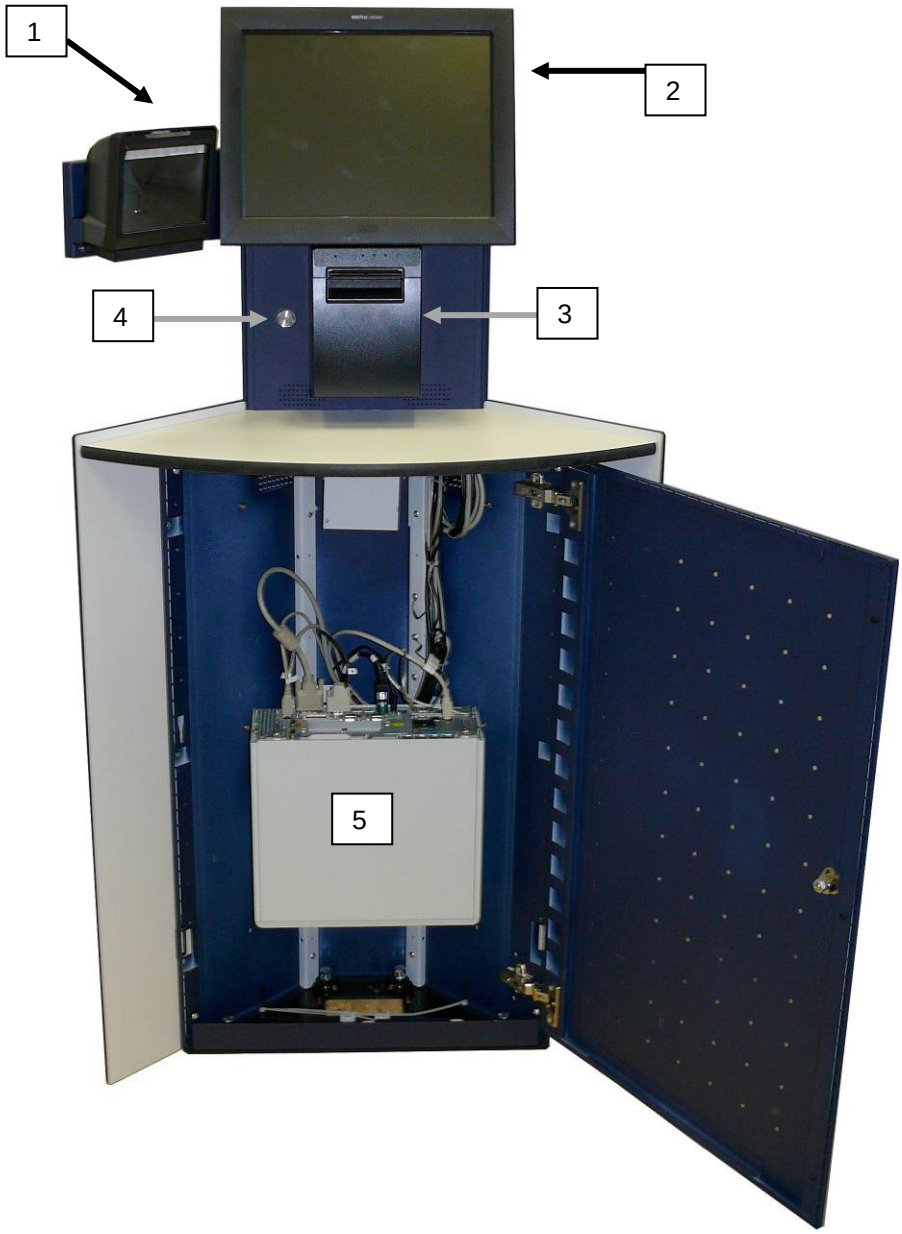
- Appropriate drawings concerning location of the equipment as well as site wiring (power and communications, paths and lengths). Location of other equipment that may generate electrical noise, electromagnetic interference, or heat
- Provision and installation of all communication cables wall jacks, special connectors and associated hardware
- Provision and installation of necessary power distribution boxes, conduits, grounds, lightning
  protection devices, and associated hardware
- Ensure that all applicable codes, regulations, and laws (including, but not limited to, electrical, building, safety, and health) are adhered to
- Provision and installation of auxiliary power or other equipment as required
- Provision of storage or service as required
- Provision of a level floor to locate the BEETLE /iSCAN Tower Line 50. The system has to be stable and must not tilt. The maximum incline must not exceed 2%. The feet of the unit can overcome a height difference of up to 10mm.
- Provision and installation of floor coverings and environmental systems that limit or control static electricity build-up and discharge.
- Provision of appropriate equipment for the remote support.

The customer is responsible for relocating the Self-Checkout equipment (check stand and components) to the final placement/installation position.

Keep the Wincor Nixdorf equipment area free from dust, smoke, lint, and other particles. Restrict smoking, eating, and drinking around the equipment. Avoid locating the equipment near other machines that generate ink, carbon and paper dust particles.

Please note that Wincor Nixdorf will not take over any warranty/liability in case the technical and environmental requirements are not met.

Components



1	Scanner	3	Printer	5	BEETLE /M-II plus
2	Screen	4	Attendant Lock		

Unpacking and Checking the System

Unpack the system and verify that the scope of delivery is identical to the information on the delivery ticket.

Should you notice any

- transport damages or
- discrepancies between package contents and delivery ticket or
- functional defects,

please inform your contracting parties or the branch office of Wincor Nixdorf immediately. Please indicate the number of your delivery ticket and delivery ticket position and serial number of the respective device.

It is absolutely necessary to check the function of the original equipment *before* you perform any changes (e.g. by installing an expansion card). Only then it is possible to accept a functional defect as a claim.

We recommend to save the original packaging for transport at a later time (protection from impact and shock).

Installing the Tower Line 50 in the Store

The BEETLE /iSCAN Tower Line 50 will be delivered on a pallet with a size in industry standard 800 mm x 800 mm.

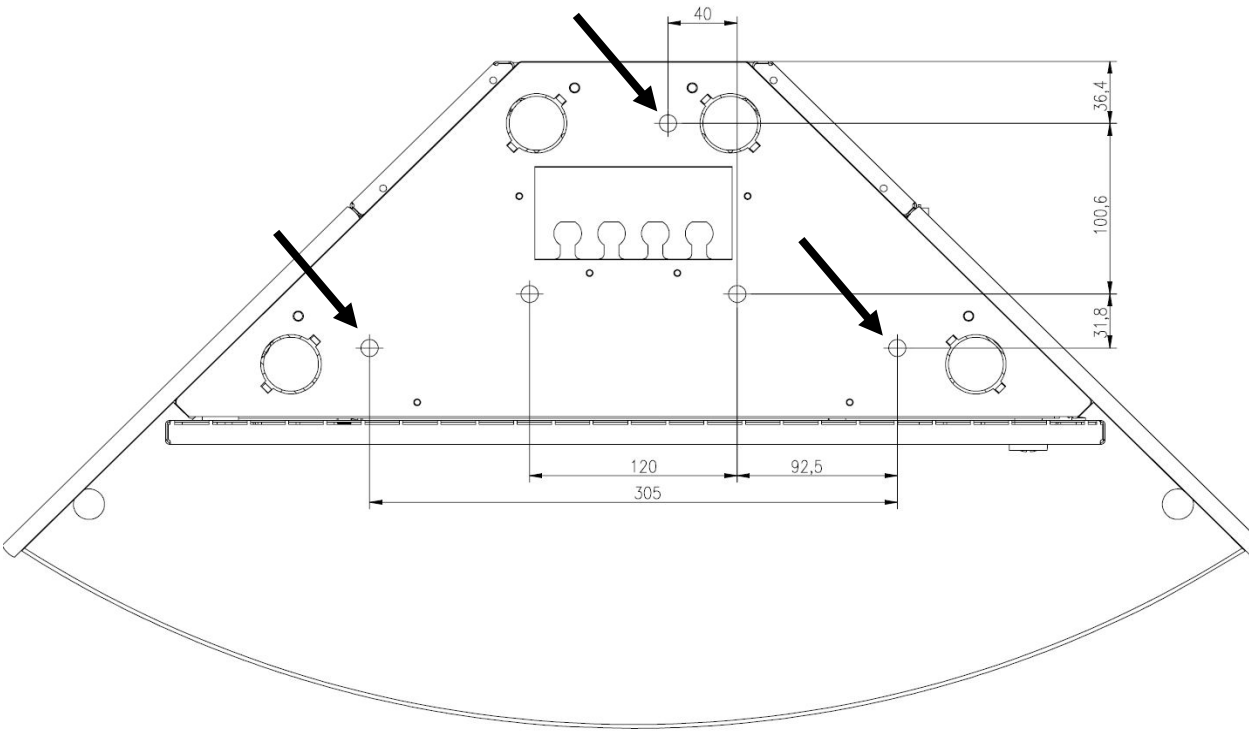
First remove the wrapping paper.

Caution! Always wear safety gloves and safety shoes with steel toe caps while transporting heavy appliances.

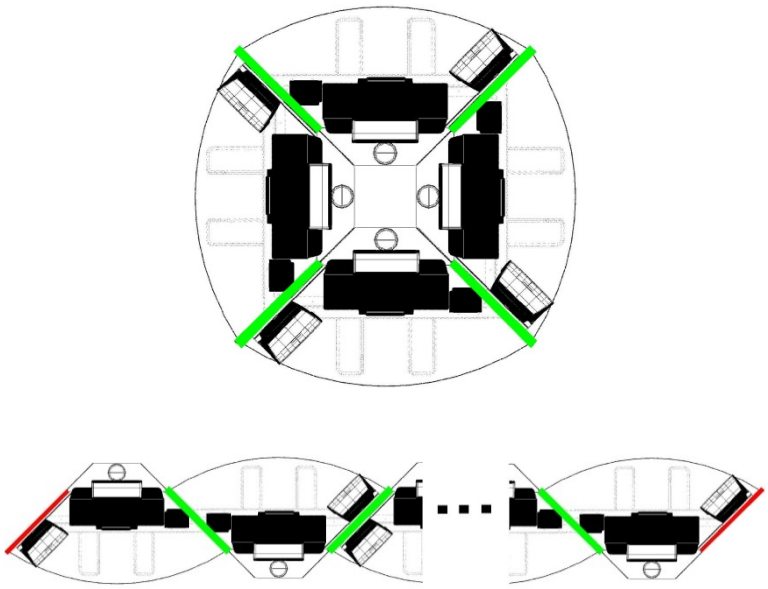
Caution! Tilt the device (max. 15°) very carefully at the edge of the pallet and set it up at the designated site. Ensure that the installation site has the required load-carrying capacity.

Fixing the Device at the Floor

The Tower Line 50 must be fix on the floor with 3 screws (M5 x 30).



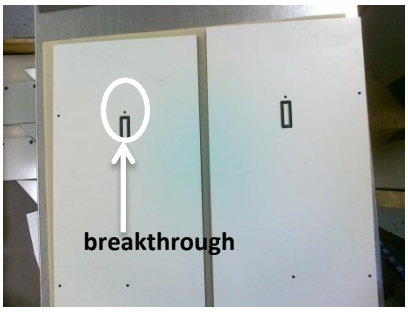
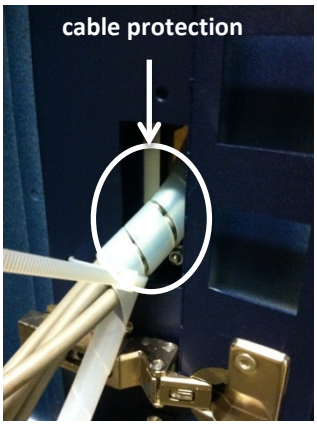
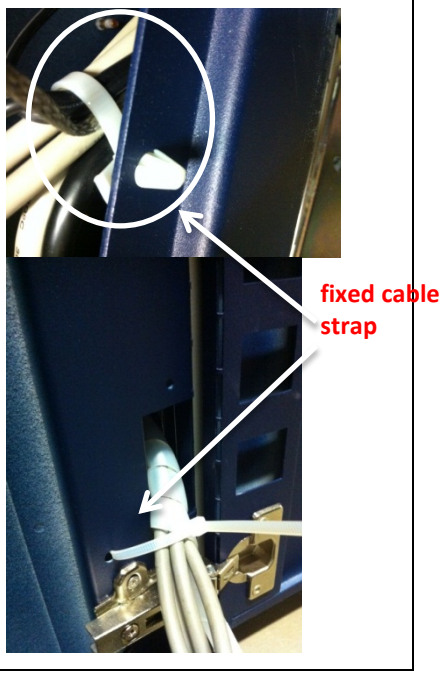
Cascading the Tower Line 50



Materials needed

Quantity	Material	Comments
3 pcs	Screws	M5 x 30 --- 3593300321
3 pcs	Self-locking nuts (Sperrzahnmuttern)	M5 x 5 --- 01750000117
1 pc.	Cable protection (SBPE9 161-41200, UL94 HB)	P/N 3249207050
1 pc.	Information sheet	Instruction for cascading two systems (this document)

Instructions:

1)	Take the HPL sideboard with prepared breakthroughs.	
2)	Hit away the breakthroughs of both sideboards that shall be connected.	
3)	Deburr the rest cover material (laminate).	
4)	Put the cables (LAN, power cord) through the hole and protect them with the cable protection.	
5)	Fix cable protection with a cable strap, so that it cannot slip away and really protects the cables running through the hole.	

Connecting the System

Start up

The power supply system must be equipped with separately guided protective earth conductor (PE). This kind of electricity system is known as TN-S network. Do not use PEN conductors!

Ratings of BEETLE /iSCAN Tower Line 50:

- 220 V-240 V, 50-60 Hz, 2,9A
- 110 V-120 V; 50-60 Hz; 3,5A

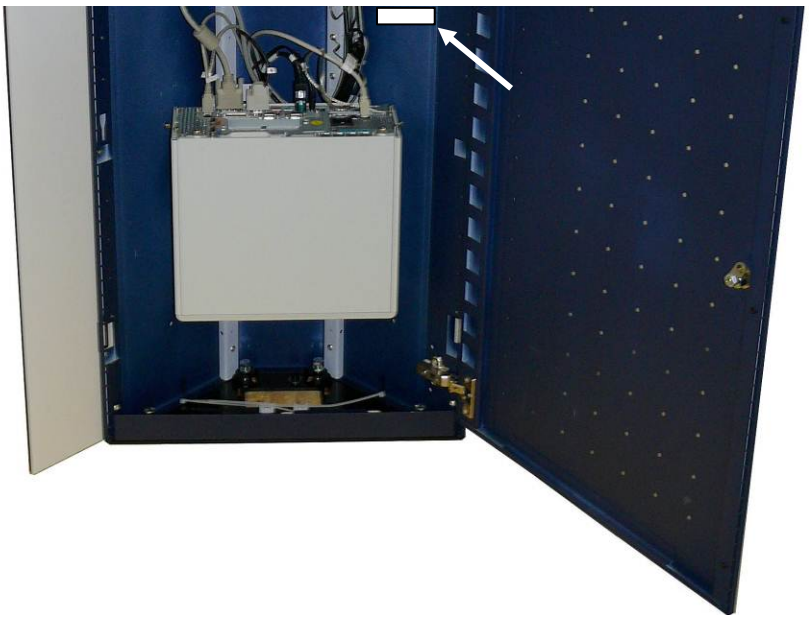
Find the rating of your device on the type label (see arrow at the picture below).

⚠ Caution! Check that the set nominal voltage of the appliance corresponds to the local mains voltage.

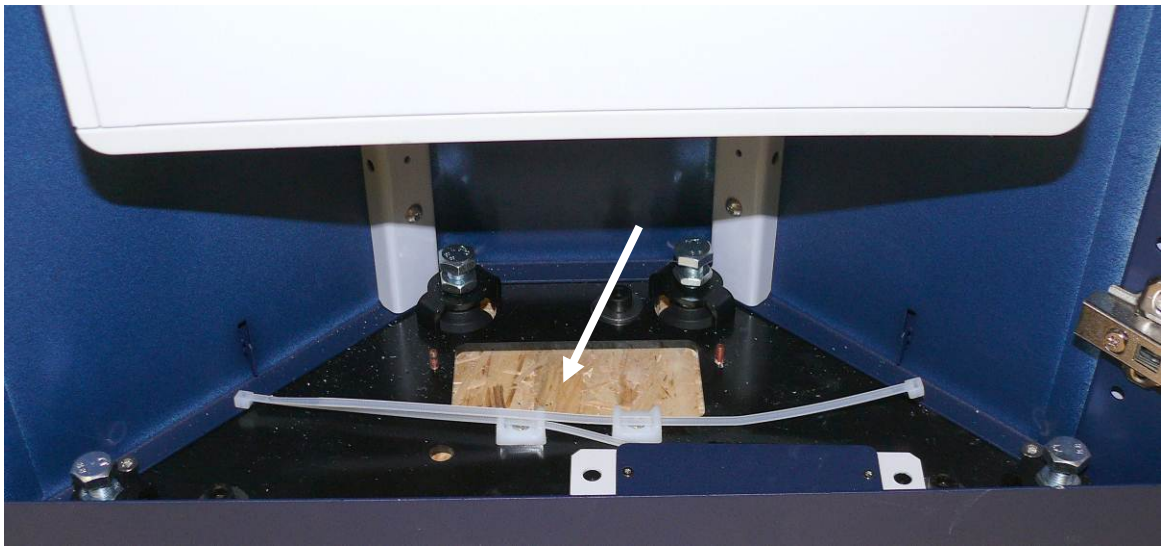
Power Connection and LAN Support

The BEETLE /iSCAN Tower Line 50 supports Ethernet 10/100 BASE-T local area network (LAN) communication protocol. The BEETLE /iSCAN Tower Line 50 terminal provides a female RJ-45 connection port for the LAN. A 6-foot LAN cable is provided with the system.

Unlock and open the front door of the BEETLE /iSCAN Tower Line 50.



Guide the Power and the LAN cable through the hole (see arrow).



Plug the power cable at the BEETLE /M-II plus (see arrow) and the system will automatically start up. Also plug the LAN cable.

After starting up the system, you will see the start screen of the operating system at the display.

Disconnecting the System from the Mains

- At first shut down the system by the software application.
- Switching off the device is the same procedure like switching on but in reverse order.

Appendix

Further Documentation

You will find the „Hardware User Manual“ on the Internet:

The service documentation will be available on the Wincor Nixdorf Intranet only.

Cleaning Instructions

- Always **turn off the system** before cleaning.
- The glass surface of your Touch Screen should be cleaned with a mild, abrasive-free, commercially available glass cleaning product.
- All pH neutral materials (pH 6 to 8) are good for cleaning. Cleaners with pH values 9 to 10 are not recommended. Cleaning with water and isopropyl alcohol is possible as well.
- Do **not use** solvents containing acetic acid.
- Use a soft, fine-meshed cloth to clean the surface. Dampen the cloth slightly and then clean the screen.

Wrong maintenance may cause damages to the screen, which are not covered by guarantee or warranty.

Maintenance and Service

When carrying out work on the components and modules that carry an electrical charge, this equipment must first be disconnected from the power supply. Besides switching off the power switch on the power distributor, the safety plug must be disconnected from the power distributor.

Device Housing

Clean the housing with a vacuum cleaner or cloth. Eliminate damage to paint if necessary and possible.

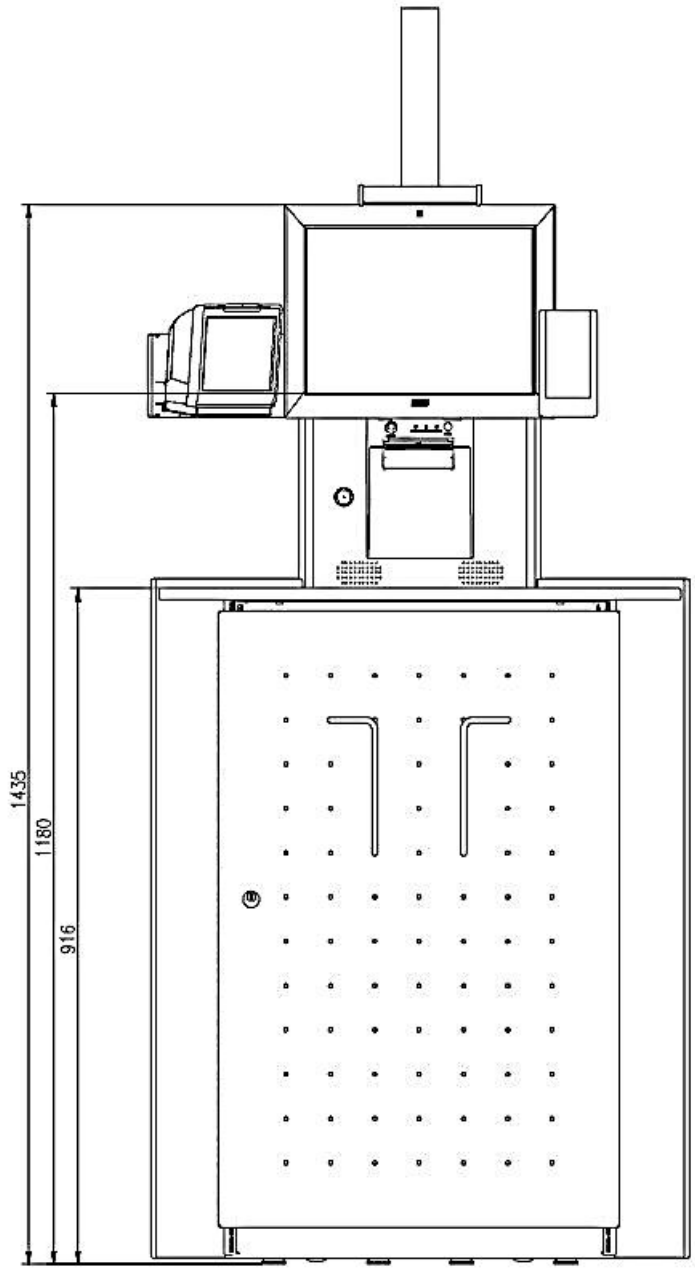
Approved Cleaning Materials

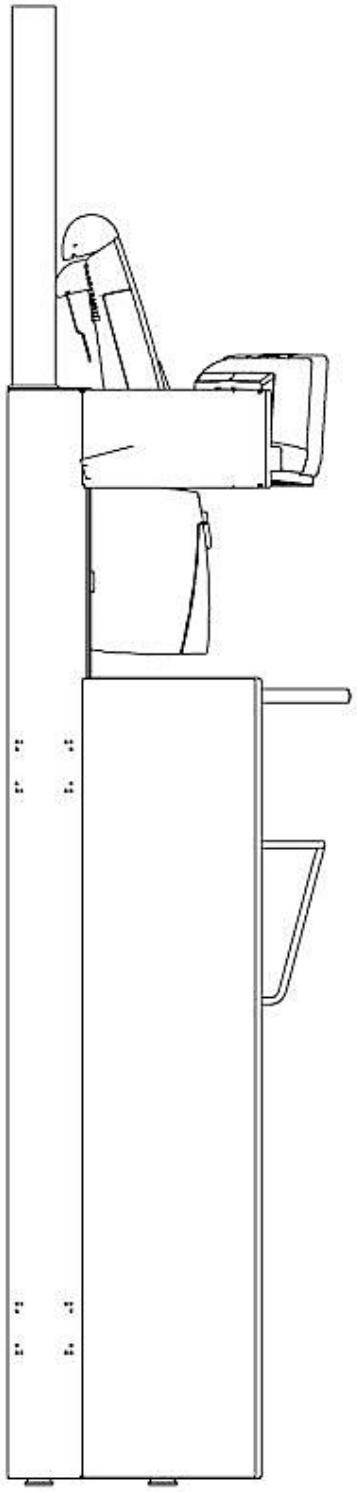
The items listed below can be ordered from Wincor Nixdorf branch office or your Wincor Nixdorf sales partner.

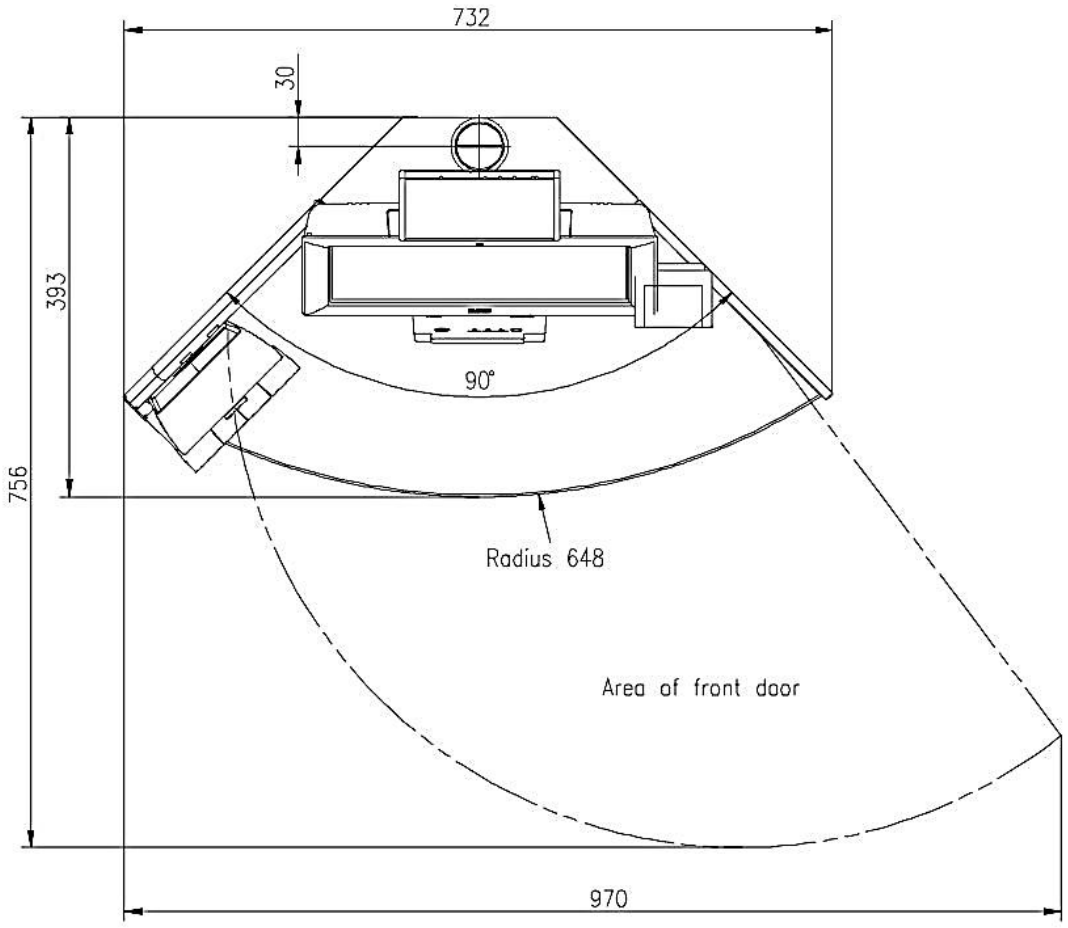
Product Name	**Order Number**	**Explanations**
Professionell cleaning set for EDP devices 100ml plastic cleaner in a pump bottle 50 dust cloths 10 keyboard swabs for places difficult to reach	01750097335	For cleaning and maintaining keyboards and varnished and plastic-coated housings
Damp cleaning cloths Dispenser box with 100 cloths	01750097332	For cleaning and maintaining delicate EDP devices, keyboards and housings
Dry cleaning cloths Antistatic and fluff free (Pack with 300 cloths)	01750097334	For cleaning display panes
Compressed air spray PRESSAIR 400ml bottle without a valve, 70cm hose	01750097331	Cleaned compressed air, CFC-free, for removing loose dust and dirt particles
Cloth with ISOPROPYL 1000 pieces	01750104065	Pure isopropyl alcohol for cleaning displays
Cleaning card	01750016388	For cleaning magnetic heads and chip contacts in ID card readers

Please note the manufacturer’s specifications on the packaging and on the information sheet included in the packaging. The product may be damaged or soiled if materials are used that are not approved or if they are used improperly.

BEETLE /iSCAN Tower Line 50 – Dimensions (mm)






732
30
393
756
90°
Radius 648
Area of front door
970

Environmental Conditions

Operating Conditions	
EN 60721-3-3; Class 3k3 Climate test according to IEC 68 / EN60068	
Ambient temperature:	5 °C – 35 °C
Humidity:	5% r.h. (1 g/m³) – 85% r.h. (25 g/m³)
Temperature change:	0.5 K/min (max. 7.5K/30 min)
Barometric pressure:	70 kPa – 106 kPa
Installation environments with long periods of sunshine should be avoided.	
Storage Conditions	
EN 60721-3-1; Class 1k2 Climate test according to IEC 68 / EN60068	
Ambient temperature:	5 °C – 40 °C
Humidity:	5% r.h. (1 g/m³) – 85% r.h. (25 g/m³) 0.5 K/min
Temperature change:	0.5 K/min (max. 7.5K/30 min)
Transport Conditions	
EN 60721-3-2; Class 2k2 Climate test according to IEC 68 / EN60068	
Ambient temperature:	-25 °C – 60 °C
Humidity:	15% r.h. (1 g/m³) – 98% r.h. (32 g/m³)
Temperature change:	-25 °C / 25 °C

Certifications of the Manufacturer

This device complies with the requirements of EMC directive 2004/108/EC with regard to "Electromagnetic Compatibility" and 2006/95/EC, "Low Voltage Directive".

Therefore, you will find the CE mark on the device or on its packaging.

Important: Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

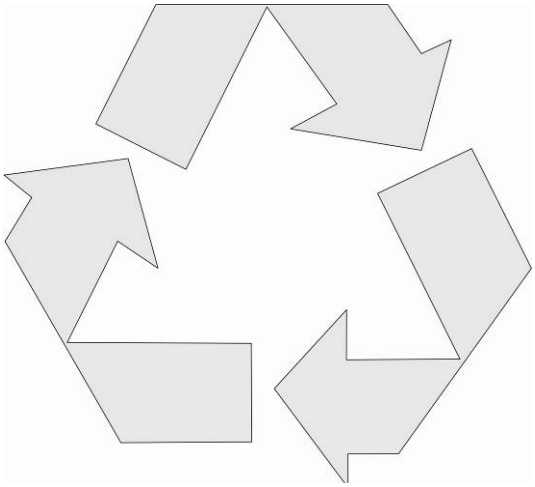
FCC-Class A Declaration

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Modifications not authorized by the manufacturer may void users authority to operate this device. This class A digital apparatus complies with Canadian ICES-003.

Cet appareil numerique de la classe A est conforme à la norme NMB-003 du Canada.

Recycling the BEETLE /iSCAN Tower Line 50



The BEETLE /iSCAN Tower Line 50 was designed according to the Wincor Nixdorf standard "Environmentally Conscious Product Design and Development”.

The BEETLE /iSCAN Tower Line 50 is manufactured without the use of CFCs and CCHs and is manufactured to a great extent of materials and components which are recyclable.

For recycling purposes do not attach any additional adhesive labels to the device.

Wincor Nixdorf disposes of old devices in a environmentally responsible manner at a recycling center that is ISO 9001 and ISO 14001 certified, as is the entire company.

Follow your local regulations on the disposal of toxic waste (such as the system ribbons).

Your Wincor Nixdorf vendor will answer any questions you have concerning returns recycling, and disposal of our products.

Wincor Nixdorf International GmbH
D-33094 Paderborn

Order No. ***01750234511A***